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M E M O R A N D U M

TO: EMILY WON, KLNG
BILL HENGIMIHLE, LECG

FROM: DENNIS P. FARLEY

SUBJECT: LPRSA – STORM SEWERS LOCATED IN NEWARK, NJ

DATE: NOVEMBER 22, 2005

CC: FILE

At your request, I provide the following information regarding combined and separated sewer systems in the City of Newark, NJ. Appended to this memo is a hard copy document, *City of Newark, NJ – Feasibility Study, Pollution Abatement Program* (1979, Clinton Bogert Associates) and a PDF file containing certain pages from the document, *Brown Street Branch Interceptor Evaluation – Passaic Valley Sewerage Commissioners, Newark, NJ* (1981, Clinton Bogert Associates). Both of these documents are referenced herein. Reference is also made to the City of Newark Water and Sewer Dept. website, which describes the city sewer system (<http://www.ci.newark.nj.us/Water/sewer.htm>).

City of Newark Sewer System

The majority of the City of Newark is served by a combined sewer system. Combined and separated sanitary flows are tributary to the Passaic Valley Sewerage Commissioner's treatment plant located in southeastern Newark. Certain areas of the City are separate sanitary and storm systems. From the City of Newark Water and Sewer Dept. website (<http://www.ci.newark.nj.us/Water/sewer.htm>), "Separate sanitary systems tributary to the PVSC serve the northwestern and southeastern portions of the City." Separated sanitary and storm systems in the southeastern portion of the City include Blanchard St., Lockwood St. and the Brown St. tributary area. This area is located north of Raymond Boulevard on the meander bend of the Passaic River, downstream of the point where the PVSC Main Interceptor Sewer leaves the riverbank en route to the PVSC treatment plant.

New York/New Jersey Office
1545 U. S. Highway 206, Bedminster, NJ 07921
Office: 908-901-0112 Fax: 908-901-0115
e-mail: newjersey@intell-group.com
www.intell-group.com

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Blanchard St.

Blanchard St. is served by separate storm and sanitary sewers. The 24-inch storm sewer was constructed in 1917 and discharges to the Passaic River. The Blanchard St. sewer is discussed in detail in the attached 1979 Clinton Bogert Study at page 20. This report documents polluting discharges to the storm sewer from a number of local industrial sources.

Lockwood St.

Storm sewers in Lockwood St, Lister Avenue, Chapel Street, Albert Avenue, Euclid Avenue and the Morris Canal Right-of-way all drain through the Lockwood Street outfall, as well as drainage from parts of Raymond Boulevard, Ferry Street, and the Pulaski Skyway Ramp. Separate sanitary sewers serve the entire area. The Lockwood St. sewer is discussed in detail in the attached 1979 Clinton Bogert Study at page 28. This report documents polluting discharges to the storm sewer from a number of local industrial sources.

Brown St.

The Brown St. Branch Interceptor was constructed in the 1920's to intercept dry weather flows from this combined sewer tributary area and convey them to the PVSC Main Interceptor Sewer. From the 1981 Clinton Bogert Study at page 2: *"The area tributary to the 24-inch interceptor is bounded by Chapel Street, Lister Street, Lockwood Street and Raymond Boulevard. When the interceptor was completed, a regulator was constructed at Brown Street to permit bypassing of excessive wet weather flows. Between the 1930's and 1970's, several sewer separation projects were completed in the tributary area. The sewers connected to the interceptor are now considered to be separate sanitary lines. The connection to the Brown Street regulator has been plugged and bypassing at that point is no longer possible."*

The Brown St. outfall is also discussed in the 1979 Clinton Bogert study at page 41, and is shown on Plate 2 of that document. A local storm sewer outfall exists at this location.

Indirect Dischargers

"Indirect" discharges of hazardous substances have occurred historically from these City storm sewer outfalls. The documents cited herein, as well as other written evidence including PVSC Annual Reports, serve to document that discharges of hazardous substances from specific industrial sources to the Lower Passaic River Study Area have occurred.